

Title (en)
INTRACORPOREAL ELONGATION DEVICE WITH A PERMANENT MAGNET

Title (de)
INTRAKORPORALE LÄNGLICHE VORRICHTUNG MIT PERMANENTMAGNET

Title (fr)
DISPOSITIF D'ALLONGEMENT INTRA-CORPOREL À AIMANT PERMANENT

Publication
EP 2068724 A2 20090617 (FR)

Application
EP 07848311 A 20071002

Priority
• FR 2007001612 W 20071002
• FR 0608678 A 20061003

Abstract (en)
[origin: FR2906453A1] The device has a connection unit (11) connecting between a permanent magnet (3) and a part (1). Lever (51) and eccentric axle (52) transform movements of the magnet by rotation of an input shaft (41) in two opposed directions with a speed reducing ratio between the rotation of the shaft and the magnet. A driving spring (43) turns an output shaft (42) in one of the directions when the input shaft turns in the direction. A blocking spring (44) stops the rotation of the shaft (42) in the opposed direction. A screw (61) and thread (62) rotate the shaft (42) to drive the movement of a part (2).

IPC 8 full level
A61F 2/30 (2006.01); **A61B 17/70** (2006.01); **A61B 17/80** (2006.01)

CPC (source: EP US)
A61B 17/025 (2013.01 - EP US); **A61B 17/7016** (2013.01 - EP US); **A61B 17/7216** (2013.01 - EP US); **A61F 2/30** (2013.01 - EP US); **A61B 17/8004** (2013.01 - EP US); **A61B 2017/00398** (2013.01 - EP US); **A61B 2017/00876** (2013.01 - EP US); **A61B 2017/0256** (2013.01 - EP US); **A61F 2002/30079** (2013.01 - EP US); **A61F 2002/30518** (2013.01 - EP US); **A61F 2002/3055** (2013.01 - EP US); **A61F 2210/009** (2013.01 - EP US); **A61F 2220/0025** (2013.01 - EP US)

Citation (search report)
See references of WO 2008040880A2

Cited by
CN107280747A; CN108904026A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
FR 2906453 A1 20080404; **FR 2906453 B1 20090306**; CN 101568309 A 20091028; CN 101568309 B 20120222; EP 2068724 A2 20090617; EP 2068724 B1 20161123; ES 2616099 T3 20170609; US 2010049204 A1 20100225; US 8632548 B2 20140121; WO 2008040880 A2 20080410; WO 2008040880 A3 20080522

DOCDB simple family (application)
FR 0608678 A 20061003; CN 200780041502 A 20071002; EP 07848311 A 20071002; ES 07848311 T 20071002; FR 2007001612 W 20071002; US 44433707 A 20071002